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| 25X1A | 3。 4。 [| Installations: The plant are quarter of which is built up. during the war were reconstructed a railroad connection. (So Work force: About 300 Soviet Shift. Production: Assembly and over Comment: a. Information on the tractor before, stating that the plant as | a is about 1,500 x 500 feet, a The brick buildings destroyed cted by German PWs. The plant ee Annex). s and 400 PWs working one rhauling of tractors. r plant in STRY was received twas southwest of the town. given in the attached sketch |

1 Annex: Tractor Plant in STRY.

CECHLE/COLERON/OS OFFECEADO OLEY ...

annex #1

Legend to Annex

- 1 Accembly hell, 900 x 120 feet, with:
 - a Foundry
 - b Spare perts depot
 - c Preusing plant
 - d Test stand
 - e Assembly of engines (assembly line system)
- 2 Pumping station
- 5 Fro storage sheds each 120 feet long, housing old and repaired tractors
- 4 Loading ramp
- 5 Disassembly hall, 600 x 60 feet
 - a Washing plant
 - b, Storage room
 - e Tearing strength testing plant
- 6 Jorkshop, 300 x 60 feet
- 7 Lathe department, 120 x 30 feet
- 8 Forge and welding shop, 120 x 30 feet
 - a Apprentice shop
- 9 Shed for the storage of spare parts, 900 x 60 feet
- 10 Garage, 150 x 30 feet
- 11 Intrance.

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| SOURCE 5X1X 1 | the war. The Soviets devel | hop whice barrack oped it | the Carpathian MCS. h had been established in s by the German troops during into a major tractor repair r. Fart of the electric |
| | power is supplied from without transformer station. A lar electrical workshop (see Ar | out and 1 ge Diese | s transformed in the plant's |
| 3, | "ork Force | •, | |
| | Four hundred civilian worker in two shifts. | ers and t | hree hundred 1"s, working |
| 4. | Mission | | |
| | Overhauling of tractors and | l repair | of tanks. |
| 25X1A | Comment: | | |
| | The report confirms and sup STRY tractor plant.* The | e renoru | s previous information on the ly known size of the plant, A comparison with previous the plant layout is correct. |
| | 1 Annex: Tractor Tlant in | STRY | |

DECRMI-COMPROL/US OFFICE LS ONLY 1 / Annex

annex 1

Legend to Annex

| 1 | Assembly shop, 900x300x30 feet a. Office rooms on the second floor of the mestern building section |
|-------------|--|
| 2 | Turning shop, 500x60 feet |
| 3 | Carpenter shop and tools storeroom, "ooden building, \$50x45 feet |
| 4 | Apprentice workshop, brick building, 450x45 feet |
| 5 | Two wooden storage houses, together they are about 750 feet long |
| 6 7 8 | Forge "olding shop |
| 9 | Spare parts depot |
| 10 | Area for test runs |
| 11 | Fitting shop, 300x60 feet, with numerous metal-working machines |
| 12 | Apprentice quarters, plant kitchen and office, three-story building, 900x60 feet, built in 1947 and 1948 |
| 13 | Disassembly shop, brick structure, 600x60 feet |
| 14 | Dispersal area for old tractors |
| 1,5 | Electrical workshop, 180x30 feet, with Diesel generate |
| 16 | Loading ramp |
| 17 | "ooden shed for the storage of construction materials. 180x30 feet |
| 18 | Two barn-like sheds for storage of completed tractors with a total length of about 900 feet |
| 19 | Water works and well with automatic pump |

MECRET-CO-TROL/US OFFICIALS ONLY

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| | 1. | Location: The STRY (23°15'E/49 | ? miles southwest of the Metal Plant is located ? a mecadem highway. |
| | 2. | Plant layout: The metal plant coverage of the fact. Its only workshop, about slightly damaged during the war but were the following departments: | t 360-føet square, was |
| • | | Foundry, equipped with one furnace indiameter, and a travelling crane 5 or 6 tons. | 14 feet high and 10 feet with a lift capacity of |
| | | Forge, with two gas fired annealing hammers. | g furnaces and two large |
| | | Lathe department. | |
| | | Lock smith shop. | |
| | | A 450 x 150-foot assembly site was The plant machinery had been dismand workers said that the plant belong Syndicate. | ntled in Germany, Soviet |
| | 3. | Work force: 120 Soviets and 70 PW | sy working in one shift. |
| | jł o | Production: Derricks for gas and | petroleum borings. |
| 25X1A | | Comment: | |
| | • | a. The attached sketch furnishes | a clear picture of the |

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SECRET/CONTROL/US OFFICIALS ONLY annex #3

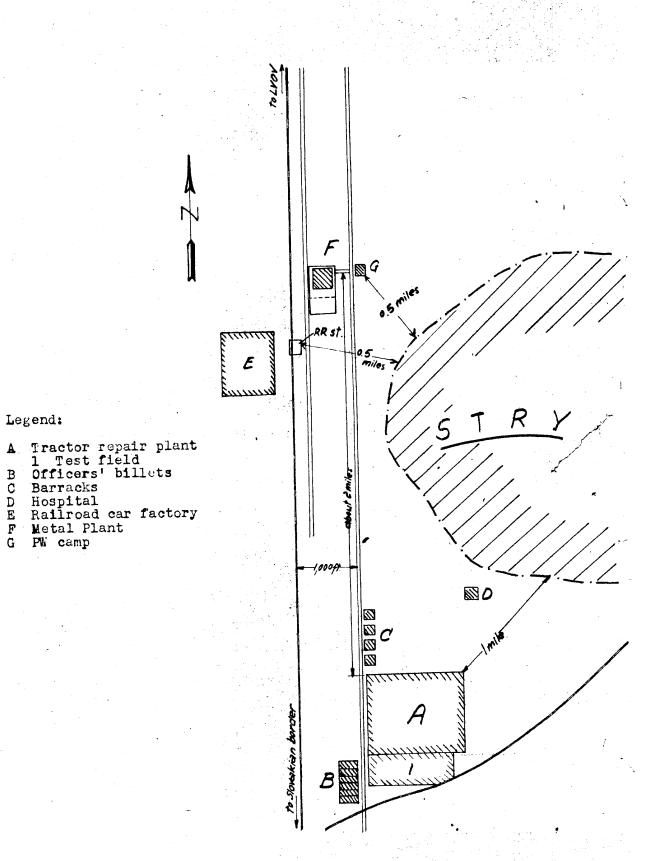
have been received on the Tractor Plant, but these reports give only approximately location.

b. This is the first information on the Metal Plant and the railroad car factory (item E of annex).

1 Annex: Tractor Repair Flant and Metal Plant in STRY.

SECRET/CONTROL/US OFFICIALS ONLY

Legend:



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annex #4

Legend to Annex:

A Railroad Car Factory

- Mein magazine(storage of raw materials, screws, nails, car couplings, oils, etc.)
- 2. Tool department 2, completed in May 1947, not fully equipped with machinery. Production of machine spare parts for the plant and small iron fittings.
- 3. Traveling crane with 270 meters of rails, completed in May 1947, delivered from Germany.
- 4. Large assembly show with axle lathes 1 and 2 and a normal lathe department, 450 x 150 meters, three constinuous arched roofs. Froduction of wheel sets and assembly of railroad cars on four conveyor belts equipped for 10 to 15 cars each.
- 5. New lathe department and foundry with three electric furnaces, production of bearings. The work pieces produced in the forge are machined in the lathe department.
- 6. Forge with one large and three small gas annealing furances; three steam harmers of more than 100 tons each one third of the shop was not furnished. Iroduction and machining of frames, buffers, exles, couplings and small iron fittings.
- 7. Tool department 1, wooden structure, production of railroad car parts.
- 8. Carpentry 1, production of the wooden parts for railroad cars.
- 9, Carpentry 2, same as 8.
- 10, Drying shop.
- 11, Engine house under construction.
- 12, Administration:
- 13. Com ressor house; steam was produced by a large freight locomotive.
- 14. Boiler house with smokestack.
- 15. Large timber yard; one third was used by the railroad car plant, two thirds by a construction enterprise.
- 16. Water tower, 45 meters high and 15 meters in diameter, completed in July 1947.

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2 anner #4

Legend to Annex contid:

- 17. Four carpenter shops used by the construction firm.
- 18. New section of the railroad car factory, 90x45 meters; its construction was begun in July 1946, not yet completed; railroad connection under construction.
- B Tractor, assembly, and delivery plant; area covered by meadows and young trees.
- C Airfield.
- D FW Camp No 7332/A.

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| 1. Location: | | | | | |
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| 2. Flant insta | allations: | | | | |
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| c. The plecondition. | osorqus bus vas Ven erew vedT | th roads are ly tarred in | asphalted and n the Summer of | in good 1949: | |
| For plant | layout see Anne | E IX. 6 | | | |
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| 3. Nork force | | | | اد. اما المماهد فعم سييت الاستعادات | |
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CONFIDENTIAL/CONTROL/GS CFFICIALS CITY

4. Froduction:

- a. According to Soviet statements the plant produced mining machinery during the war.
- b. Production at the time of observation: Shaft eagens, conveyer belts, coal dust blowers, also known as "Cycleres", coal dust shifting mechines and shaft supports.

25X1A

Comment:

menko Lining machinery Factory. In November 1991 the plent was moved from Voroshilovgrad, Ukrainian SSR, and not, as stated by source, from Leningrad to Managanda. At that time the plant was housed in the repair shops of the Coal Combins. The repair shops of the coal forebive are shown under item 3 on the town plan she ton

25X1X

The location indicated by source presumably corresponds to the town plan. There is no difference between the sketch of source (one plant department of Dheft I west of the plant) and the town plan (entrance of Sheft I south of the plant). It is possible that that install setions of Sheft I surround the entire plant.

- b. Another source reported that new factory installations being constructed for this plant in the new mector of Karaganda. These installations should soon be completed. The machinery is to be moved to the new location in 1950.
- c. The statement concerning the wartime production of the plant does not correspond with the information on record. In 1942 the plant, employing 1,000 we here, produced bombs end shalls; the production of machine guns and submachine guns was also reported but not confirmed.
- 2 Annexes: 1. "Farchomenko" Lining Hachine Harufac buring Flant in Karaganda.
 2. Karaganda.

Legend to Annex 1:

- A Farchomenko Mining Equipment Plant.
 - 1 Stables
- . 2. Gerage, old
 - 3. Carage, new solid structure, space for 12 bruchs and two cranes.
 - 4. Mooden structure, old, housing:
 - a. Resshall for Fis
 - b. Kitchen
 - c. Storage for tin and wire

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- 5. Tool and supply storege
- 6. Double track for movable crane, capacity 8 tons.
- 7. Foundry, cast iron, 73 x 27 meters, four electrically operated furnaces
- 8. Foundry, non-ferrous metals, gas fueled furnace
- 9. Electric department
- 10. Ambulance
- 11. Buth
- 12. Tipe cutting section
- 13. Chemical laboratory .
- 14. Stables
- 15. Supply dump
- 16. lattern cutting section
- 17. Steel construction department designated "CLK", two movable cranes, each 20 to is capacity. The frenes for machines are manufactured here.
- 18. Assembly shops; all machines produced at the plant are assembled here.
- (16 through 18 are in one brick fullding with steel structure-roof and skylights)
- 19. Office building, four stories high, modern, construction office.
- ·21. Mechanical department, 68° x 9 moters, production of small parts.
- 20. Storage area for machine 270 meters long.
- 22, Production of shaft sup, icts
- 23. Testing of shaft suppor
- 24. Storage for semi-finished product
- 25. Production of electrodes, no details available
- 26. Lechanical department, 370 x 9 meters, large metal processing mechines. roduction of large cast iron parts and gears.
- 27. Large and small for se
- 28. hardening shop, 18 x 9 meters, six electric hardening furnaces.
- 29. Administration building, three-story brick structure, 18 x 18 meters.

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COLFIDERTIAL/COLTROL/US OFFICIALS ONLY

- 30. Lachine tool department and grinding shop
- 31. Flant repair department
- 32. Office of the repair department, three-story building
- (30 through 32 are in one building, 90 x $13\frac{1}{5}$ meters)
- 33. Narrow gauge track, leading from the foundry to the mechanical department.
- 34. Shipping lane
- B Area of a glant department of the coal pit 1
- C house, with yard, quarters of the plant director
- D "Lakarov" Lachine Factory,

annexed to the plant repair department: 100 x 18 seters. Torks independently and produces combined cold-cutting machines.

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| IX _ | | |
| 1. | Location: | |
| | (23050'E/49015'N), U reilroad overpass ac | cross the railroad line to the south. For |
| 2. | 1/030501E /AQQ151E) I | ikrainian SSR, and 27 meters southwest of the cross the railroad line to the south. For layout see .nnex. |
| 2。 5X1X | (23°50'E/49°15'N), Ureilroad overpass aclocation and plant l | ikrainian SSR, and 27 meters southwest of the cross the railroad line to the south. For layout see .nnex. |
| 5X1X 25X1X | (23°50'E/49°15'N), Ureilroad overpass aclocation and plant lations: Plant installations: the Fall of 1946. | ikrainian SSR, and 27 meters southwest of the cross the railroad line to the south. For layout see .nnex. |
| 5X1X | the Fall of 1946. October 1947. a. The fitting of the Spring of 1948. Sour long and 3 meters in | the excavations started du bare structure was completed and rooted by plant was to be put into operation in the roe observed four large boilers, 5 4 meters and diameter, many tubes and 30 to 40 large bo |
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| 5X1X 25X1X | the Fall of 1946. Cotober 1947. a. The fitting of the Spring of 1948. Sour long and 3 meters in stored in the plant b. The plant covers boiler house, 15 x 6 of the building. The meters height. The by steel girders and boilers and turbing. | the excavations started du the south was to the excavations started du the |
| 5X1X 25X1X | the Fall of 1946. The Fall of 1946. October 1947. a. The fitting of the Spring of 1948. Sour long and 3 meters in stored in the plant b. The plant covers boiler house, 15 x annex, 18 x 4.5 x 6 of the building. The meters height. The by steel girders and boilers and turbine was not yet being 18 | the excavations started du the southwest of the cross the railroad line to the south. For layout see Annex. the excavations started du the excavations support de covered with concrete slabs. Foundations support de covered with concrete slabs. |
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- 2 -

anney #5

25X1A Comment:

This is the first information on the construction of a power plant in stry. The location data seem credible since the sketch supplied by another source gave the same location of the railroad repair shop west of the railroad station.

1 .nnex: Blueprint, Power Plant in Stry.

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25

- Location: The "Kommunar" Agricultural Machine Plant is located in the southeaster section of ZAPOROZHS (35°11°4/ 47°49'N), Ukrainian SSR, about 2,700 feet north of the railroad station and 1,500 feet from the Dnieper. A highway with streetcor tracks divides the plant area into two sections.
- Plant installations: Each of the two plant sections cover about 1,500 x 500 feet. The western section includes sawmill area of about 300 x 240 feet. The eastern section includes a technical school with administration building, in an area of about 600 x 450 feet. Most of the buildings are stuccoed with light colors. Electricity supplied by the Dnieper Power plant. Several railroad spurs lod into the plant. For plant layout see annex.
- Work force: About 2,000 Soviets, 100 apprentices and 600 to 700 PWs, working in these shifts.
- Production: Combines.

25X1A

Comment:

Report furnishes a clear picture on location and layout of the plant. Data agrees with other reports.

Kommunar Agricultural Machine Plant in 1 Annex: ZAPOROZHE.

Legend to Annex:

- 1 Lumber department, 240 x 45 x 25 feet
 - a Small workshop

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- 2 Foundry, 300 x 120 x 30 feet, with two short sheetmetal backstacks. The eastern part of the building is the higher.
- 3 Assembly hall, 450 x 300 x 30 feet, divided into several transversal and longitudinal sections
 - a Pransformer chamber
- 4 Damaged workshop without roof, 125 x 45 feet
- 5 Workshop, about 300 feet long, with some war damages a fron storage dump
- 6 Forge and mechanical department, 300 x 120 x 50 feet a Iron storage dump
- 7 workshop, 200 x 90 feet, without roof
- 8 Foundry, 240 x 90 x 35 feet, with one or two smokestacks
- 9 Boilerhouse, 90 x 75 x 50 feet, red brick building with one shokestack
- 10 Warehouse and carpenter shop, 120 x 45 x 15 feet
- 11 Dwellings and workshop for apprentices, 120 x 45 feet, three-story building
- 12 Assembly and repair shop, 180 x 45 x 20 feet
- 13 Two-wing administration building with three stories, each wing 120 x 45 feet
- 14 Recanical school, 120 x 45 feet three-story building
- 15 motion picture theater, contonment building, 150 x 50 feet
- 16 Large mill, concrete structure, 450 x 75 x 75 feet with annex, 120 feet long, and a 100-foot long corner tower alongside the road
- 17 Kitchen, 120 x 45 fest, three stories.

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| JPIC Dnepr River Power Plant in ZAPOROZ | ZIPP Annual program and program and program and the second program a |
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| | |
| 1. Location: The reservoir dam is section of ZAPOROZHE (35°11'E/47°4 town port at the eastern end of the | located in the northwestern 9' N). Ukrainian SSR. The |

2. The breastwork of the dam, a concrete and brick structure, is 2,000 feet long, and has 36 or 38 steel gates for the regulation of the flow of the water (the exact number of the gates was not remembered). The gates are operated by a mobile crane. Two gates were permanently opened at normal water level. A 45-foot road runs along the crest of the dam. There are 8 to 10 concrete piers on the northern side of this road. These support the craneway, from which the steel gates are operated. The dam extension is a bridge on the west. This bridge establishes a connection with the western Dnepr bank. The water required for the generation of electric power flows under the bridge. The water used for the generation of power flows into a reservoir, which is bordered on the east by a 150-foot wall. Six slanting pipes have been built into thisdam. Through these pipes the water rushes down over the turbines before returning

The power plant has been erected east of and below the dam on a tengue of land. It is a 900x\$5x30 foot structure. Two American and four Soviet turbines, allegedly exact duplicates of the American turbines, have been installed and are in operation. The last turbine was placed in operation on 1 September 1949. The transformer station and power distribution plant, a 1,500x600 foot compound is located southwest of the turbine house, some distance away. Four high-tension lines branch out from this installation, which is located on a hill. There are many masts fitted with porcelain cups and switch installations. A lock system that serves shipping and consists of four locks is located on the bank of the river at the eastern end of the dam in the

7

sixth district of the town. The road running along the creat of the dam leads over this lock system. (For constructional diagram of the dam see Annex 2).

Comment.

- a. Pills is the first report showing the exact course of the dam one the installation of the reservoir in addition to the garkine house. The existence of a special reservoir was not previously known. It seems credible that an even flow of wasce to the supply pipes is assumed through use of this system.
- b. The reported 36 or 38 steel gates confirms previous information, particularly a photograph attached to a previous report. It is assumed that a verying number of gates will be opened, depending upon the prevailing mater level of the Dnepr diver, to prevent too high a water level in the reservoir. The piers projecting from the wall of the dam (items a and 2 of innex 2) are confirmed by the photograph mentioned.
- c. The information in this report is considered credible, although it has not yet been confirmed.
- 2 Annexes: (1) Drepr diver Power Plant in SAPORCHE
 (2) Constructional Drawing of the Dam of the Drepr diver Power Plant.

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Legend to Annex 1, sketch 2

dam with bridge

Bridge from the end of the dam to the western shore of the recervoir

Reservoir

Dan borderia, the reservoir on the east

Turbine house

Péver transmission line to the transformer station Promoformer station and power distribution plant

"Compared Tomes"

familiamica, no details available foot system, four locks

holdry to arres 2

Constructional Trawing of the Dneyr River Power Plant Dam

- Projecting piers, each about 12 feet wide all of the dam (with steel gates)
 Steel gates, each about 30x30 feet
 Concrete road on the crest of the dam, about 45 feet wide Piers supporting the craneway, about 25 feet high Craneway, 18 feet wide, with rails for two cranes Hobile crane operating the steel gates.

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| SOURCE 1: | |
| X | |
| 2: | |
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| • | |
| 1. | Work Force: |
| | 3,000 Soviets, including 60 percent women, working three shifts. The construction workers are not included in this number. An annual leave of four weeks was granted. |
| 2. | Production: |
| | a. Radial engines |
| | b. Motorcycles. |
| 3. | Air Defense Measures; |
| | There were some unoccupied AAA emplacements in the plant area. |
| 4. | Designation: Aircraft Engine Plant No 478 |
| 5. | york Force in 1949F 3,000 to 4,000 Boviets working three shifts. |
| 6 。 | Nine-cylinder radial engines were seen in the test plant with six test stands. |
| 7. | Production: |
| | Nine-cylinder radial engines were seen in the test plant six test stands. |

b. Production of BEW 500 ccm motorcycles.

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annex-9

25X1A conment:

a. The production of radial engines (probably the seven-cylinder asch 21 engine) and of motorcycles in Plant No 478 in gaporozhe is confirmed.

- b. A previous report * contained the information, based on hearsay, that the production of motorcycles was discontinued in the Fall of 1948. According to this more recent report, this item of information seems to be correct.
- c. From the strength of the work force it can be inferred that the reconstruction of the plant is making slow progress and is not yet completed.

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| - 1) | Water satisficacy with the management of | | | |
| | In the town center of Karaga Karaganda Cblast, southwest northwest of coal mine to 1 | of the Dolni Park and | | |
| . 2, | Plant Installations | | | |
| | The plant area is 300 x 250 plant was cleared in 1948, a constructed. For details so | new installations were | | |
| 3, | Work Porce | • | | |
| | About 1,000, 50 percent women deported persons. | en, mostly convicts and | | - |
| 4. | Production | | | |
| | All types of mining machines mining cars with a capacity | s and implements, tiltable of 20 tons. | | |
| 25X1A | coment. | | | |
| | a. The plant location was of fermation and old records. (report*). | determined from previous in- | | |
| | b. The annex clarifies card detailed information on the | inal points and gives plant layoutl | | |
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- (1) Comparison with a wartime town plan *
 shows that the cardinal points of the attached
 sketch are correct and were erroneously turned
 180° on two previous sketches.* and **. This
 is established by the location of the following landmarks: Dolni Park northeast of the
 plant, coal mine southeast of the plant and the
 railroad tracks leading to the south. The plant
 entrance west of the plant area seems more credible than east of it, as was previously reported.
- (2) It is doubted that source could have remembered the large number of very small plant installations reproduced on the innex. However, with the location of the essential buildings corresponding with other information, the assumption is justified that the attached plant layout approaches facts.
- c. Except for the sketch and legend the statements are unimportant. The reported plant area and the workforce are too small as compared with other information.
- 1 timex: Parchomenko Factory for Lining Cachines in Raraganda

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annex # 9

Legend to \nnex

- 1 Storage dumps for iron sheets, iron rods, pipes, section dron, etc.
- 2 Small store for finished products
- 3 Dumps with steel shavings and coke slag
- 4 Store, brick building, 45x10x7.5 meters for paper, construction materials and other materials
- 5 Directer's apartment
- 6 Parking lot
- 7 Sitting room of plant guards
- 8 Horso-drawn transportation unit
- 9 stables for approximately 20 horses, clay building
- 10 Watchtowers
- 11 Building with old forge and two vacant rooms
- 12 Garage, brick building, 12x8x4 meters
- 13 Repairshop for motor vehicles
- 14 Spare parts depot for motor vehicles and sitting room of drivers
- 15 Wooden shed, cement stores
- 16 Sawmill with one saw frame
- 17 food stores
- 18 Finall kitchen and PV messhall
- 19 Drink water reservoir
- 20 Clay structure shed, 20x10x5 meters storage of mining implements
- 21 Carpenter shop
- 22 Storage dump of old cog wheels

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CONFIDENTIAL-CONTROL/US OFFICIALS ONLY (2/Annex

annex #7

| 30 | Ord Mooden sued |
|-----|---|
| 84 | Magzine with paints, and gasoline, zurrounded by a barbed-wire fence |
| 25 | Shed with sand, lime and resin |
| 26 | Office |
| 217 | Storage dump with forging coal and timber for the sawmill |
| 28 | Foundry and molding shop |
| £9 | Melting shop with four electric melting fur- naces, two of which in operation |
| 30 | Grinding shop with six grinding machines, abrading of slugs |
| 31 | precision mechanical workshop |
| 32 | Plant canteen |
| 33 | Kitchen and messhalls |
| 34 | Motion picture theater and club for workmen |
| 35 | Motion picture theater and club for foremen |
| 36 | Switching installation, brick building, 50x15x |
| 37 | maters igning administration, technical drafting and de signing office, brick building 50x15x3 meters |
| 33 | Antrance for employees and visitors |
| 39 | Janitor s room |
| 40 | Gate for vehicles |
| 41 | Narrow-gauge railroad track, not used |
| 423 | Hardening shop with six small electric furnace and six large coal burning furnaces |
| 45 | Forge with four places for manual forging |
| 44. | Electric and pneumatic hammers |
| | a Four preheating furnaces |
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anning the

- Machine shop with three lathes and a special 45 milling machine for the milling of cogwheels with upright and slanting cogs
- Two turbines for the ventilation of mine No 1 48
- Machine shop with lathes, boring machines and 47 grinding machines processing mining machine parts
 - Traveling crane
- material shop of assemblies 48
- 49. Locker room
- Assembly shops for large mining machines and 50 20-ton mining cars with dies, shears for sheet metal, boring machines, grinding machines and cranes
 - Warrow-gauge railroad tracks where mining cars are tested.
- Meetric welding shop, brick building 40x8x5 51 meters with 10 to 12 work places, electric and automatic welding machines and grinding machines
 - Stolki pressing machine
- Out-door assembly places for machines 52
- Stores of compenent parts for mining machines, E3 brick building, 44xlox7 meters
- Repair shop for welding apparatus £4.
- Trolley transporting slugs from No 44 £5.
- Storages with slugs 5.6
- Boiler house, 50x15x12 meters 57
 - Steam governor for plant heating

 - Two new boilers, in operation since March 1949 Old boiler house, boilers dismantled since C March 1949
 - Underground water reservoir, 7x7x8 meters đ
 - Underground water reservoir with flower garden on top
 - Smokestack, up to 3 meters bricks, then 12-meterhigh sheet-metal structure

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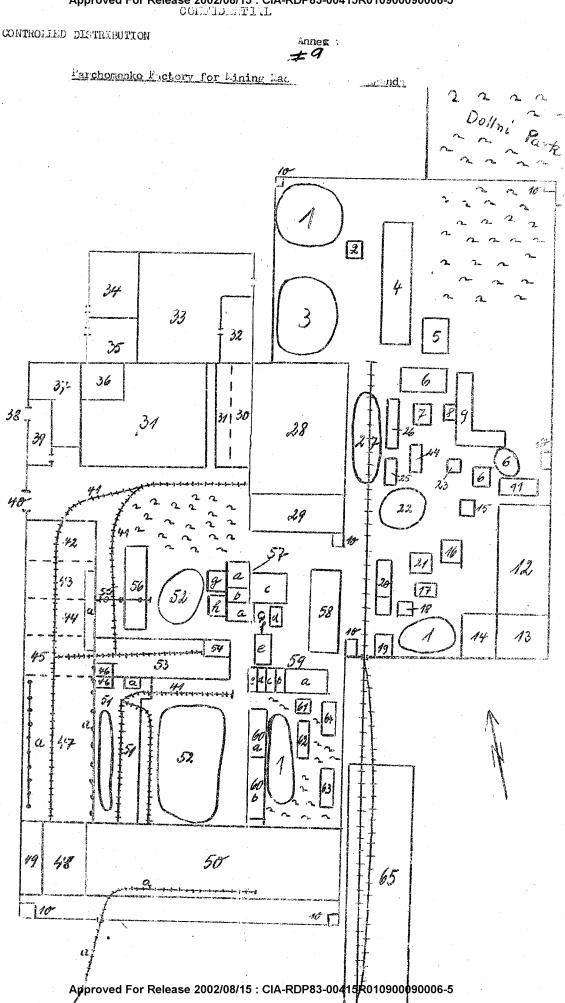
CONFIDENTIAL-CONTROL/US CITICIALS ONLY 4/Annex

annexity

- g Ventilator installation of mine 1
- h Former old forge
- 58 New model-making carpenter shop, 30x20x4.5
- 59 Brick building, 30x10x4.5 meters
 - a Repair shop for electric welding apparatus
 - b Dispensary
 - c Bath
 - d Offices and check point for acids
 - e Tube-cutting shop
- 60 Brick building, 20x10x5 meters
 - a Offices
 - b Laboratory testing tensile strength, hardness and acid resistence of metals
- 61 Small gasoline dump
- 62 Presumably garage
- 63 Old unidentified building
- 64 Former horse stables
- 65 Coal loading platform of mine 1.

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| | 2. <u>F</u> | Plant Installa | tions: | | |
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| | 3. | Work Force: | | | |
| | | three chifts. | Soviet statemen including 3,0 were women an | 00 PWs and 1 | workers working in L,200 Soviet prisoners juveniles. |
| | 1. | Production: | | | |
| | . , | Railroad trac | ks(no other ro | lled product | ts were observed). |
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| 25X1X | | a. This the steel works. | best report re | celved so fa | ar on the MARIUPOL |

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- 11. Open-hearth department, a red brick structure which looked very neglected although it was built after 1945. It had a black sheet metal moof resting on steel girders. There were six open-hearth furnaces and several Bessemer converters. Two 120-foot tapering metal smokestacks were located to the north.
- 12. Old forkshop with the inscription "1935", a steel structure with brick lining plastered with grey clay, and a black sheet metal roof. The pigs were taken from their molds and cooled in this shop.
- 13. Rolling mill department 2,500 feet, divided in several shops. Shop 1, 1,600x120 feet with six furnaces, 5 or 6 dynamos to drive the roll train and the large roll.
 - Shop 2, 2,300x300 feet with various rolls and cogged material
 - Shop 3. 450x120 feet with the continued roll train and 2 furnaces
 - Shop 4. 1,000x240 feet, a steel structure with steel roof girders. The workshop is covered by a flat saddle roof of plastic slabs as far as the beginning of the roll train, then by a number of glassed transversal shed roofs to the west. The upper half of the walls of the entire shop was of glass. At the entranse between shop 3 and 4 there was a shape mill followed by 3 pairs of "transversal" roll trains which could be seen by source. A 12 foot "shop gate" belonged to each pair of roll trains. Source believes that the remaining part of the workshop, which he could not see, was equipped
- 14. Storage and shed for electrical equipment 300x95x25 feet, a brick building with planting roof, not plastered. The roof was covered with black sheet metal.

like the described one.

- 15. Grey-plastered brack building 240x90x36 feet, with flat saddle roof.
- 16. Sewage installation where the entire sewage system of the plant converged. There is a new channel system and an old one which is still partially used.
- 17. Concrete factory which supplied the concrete used for the construction of the plant. According to state-ments by soviets another open-hearth department is to be built later.
- nace in the southern section of workshops 1 and 2, smokestacks over the annealing furnaces in the northern section of workshop 3.

 The plant road indicated on the sketch has a head stone pavement. Other new roads with asphalt-grit layer were being constructed. All buildings are new with the exception of the buildings Bo. 3, 6, 7 and 12 which were built in 1935 or earlier.

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a certain knowledge of the arrangement of the plant installations, the size and type of construction of the individual workshops. As compared with an aerial photograph taken before the destruction of the plant, the attached plant layout largely corresponds to the former arrangement. It is believed that the report and sketch give a relatively correct picture of the plant.

b. Three blast furnaces are mentioned. If it is not meant to imply that three furnaces were in operation, source must be mistaken. The plant was formerly equipped with four furnaces, two of which were in operation in 1948 according to other information.

c. It has not been clarified whether the plant has a power plant of its own. The pertinent statement by source that power is supplied from outside and is then transformed within the plant, is presumably correct (see Annex, object 8). Other sources also stated that they did not notice any heating material in the plant. The oil containers beside the transformer, repeatedly reported, may have contained oil required for the transformers station.

1 Annex: "Azovstal" Steel Plant and Rolling Mill in RHDANOV (MARIUPOL), Ukrainian SSR.

Logend to Annex:

- 1.Plant railroad station
- 2. Two small guardhouses
- 3. Brick garage for the fire brigade, 30 x 45 feet
- 4. Three-story brick building with red tiled roof, 30x90 feet
- 5. Blast furnace department with three furnaces, each 60 feet high
- 6. machine thop, 450 x 240 x 36 feet, a steel structure with red brick lining; plant repair shop
- 7. Scrap department 200 x 150 x 60 feet, a steel structure with black sheet metal roof
- 8. Transformer station 130 x 240 x 60 feet with flat roof of plantic clabs provided with anacpalt surface. The wires of the cross-country transmission line ended there. No heating material or any other fuel was observed. An open air switch station was located in the plant yard.
- 9. Brick structure with a coat of white paint, 30x60x60 fect, fenced-in and guarded.
- 10. Joke oven plant 600 x 90 x 50 feat, a steel structure filled in with concrete clabs. On the roof there were movable, vertically arranged, steel plates which could be moved aside to fill the oven chambers. The number of the chambers is unknown. Two 120-foot concrete smokes stacks were south of the coke oven plant.

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1. Location

In the northeastern section of Shdanov (Mariupol) (37°34° E/47°07° N), Ukremian SSR. Plant A, located north, and plant B work together closely.*

2. plant Installation

The plant, which was greatly damaged during the war, has been under reconstruction since 1944. Although not completely reconditioned it has been in operation since September 1949. For plant layout and stage of construction as of September 1949 see Annex 1 and Legend.

a. The open-hearth plant east of the large rolling mill had five oil fueled furnaces and four smokestacks on the northern side. Ingot steel, look60x35 cm and 200x35x35 cm, was manufactured there. Open-hearth plant No 1 was a steel structure with improvised walls of wood and sheet metal and a sheet-metal roof. Six to eight open-hearth furnaces were in the southern part of the workshop and tapping was done at the northern side of the furnaces. Five traveling cranes were in the workshop. Open-hearth plant No 2 was still being reconstructed, the eastern half being unusable. Two open-hearth furnaces were fitted in the northwest part of the workshop and structural parts and machinery were scattered around the building.

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- b. The rolling mill for ingot steel had six or seven annealing furnaces, one twin-roll and one plate cutting machine.
- c. The pipe welding shop was west of the rolling mill. Five to six-meter long sheet-metal strips were bent and welded into pipes. The threads were tepped in a torkshop to the west.

The three above shops were interconnected and had the total measurements of 400x40x20 meters.

- d. Two rolling mills for sheet metals were south of the three interconnected workshops. They each had one twin-roller, 300x30x10 meters and 250x30x10 meters.
- e. The hardening shop north of the rolling mill had seven hardening furnaces, two of which were still under construction. They were for the processing of railroad car axles and armor plates.
- f. Tank cupolas were turned and provided with entrance hatches in a workshop, 100x20x6 meters, located northwest of the pipe welding shop.
- g. Four parallel workshops where tank cars were manufactured were in the western plant section. Two of these workshops were equipped with machinery in 1949 but had not started production. Each shop was 150x40 meters and had a partially glassed sheetmetal roof.
- h. The foundry had one group of three furnaces and one group of four furnaces. For details see Annex J.
- i. Plant department "A", in the western part of the plant, was a four-span workshop supported by concrete bases with a window front 280 meters long. key soviet personnel said that sections 1 and 2 worked under the control of the Ship Building Ministry and sections

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3 and 4 under the Railroad ministry.

(1) spans No 1 and 2 had milling machines to abrade the edges of 9 to 12 cm thick armor plates for ships. The following machinery was installed during the summer of 1949:

One large Hettner boring machine with swing crane, one Raboma boring machine, machinery from the Skoda plants, various work benches, machinery from American firms including one 24-meters long machine from General Electric.

The work force consisted of 35 men for operating the machines and 250 men fitting machinery. The processed armor plates were shipped to the Azovstal Plant by rail.

- (2) Spans No 3 and 4 had small lathes, boring machines and work benches. One automatic welding machine and one spraying machine for nitro varnish were installed in June 1949 to replace a work detail of 30 to 40 men working manually. When the scheduled monthly output of 365 railroad tank ears, including about 25 percent insulated for acids, was completed the production was stopped for the remainder of the month. With all completed cars in numerical order, production data were easily obtained the first and last production number of each month.
- j. The tanks to be mounted on railroad cars came from the neighboring department "T" which stopped production in July or August 1949 as it had tinks in stock. Acconstruction of this department was being started in september 1949 at which time soviet convicts working there were withdrawn. No details were available on the type of reconstruction work. Preassembled axle and wheel sets were delivered to department "T" on which chassis and springs were fitted. It was said that the chassis have been produced in the plant since early 1949 and before that had come from a plant in Central Russia. For sketch of workshop and tank car see Annex 4.

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3. Tork Force

work was done in three shifts of 5,000 laborers each, and an additional 350 pys doing construction work. Soviet workers gave a total estimate of about 20,000 workers.

4. According to one source armor plates, about 10 cm thick, tenk cupolas, railroad tank cars with a 50,000 liter capacity (monthly output about 350) oxygen cylinders, rolled and welded pipes, 50 to 60 cm in diameter, 6 meters long with threads at the ends, wheet metals varying in thickness and armor plates for ships were produced in the plant.

The production was given by another source as being four-axle tank cars with a 50 ton capacity, daily output 16 to 17 cars, searless and velded pipe, steel plates, ingot steel, tank cupolas, sheet-metal varying in size. For plant layout see lanex 2.

A third source Said that the plant mainly produced tank cars with a 20 to 60 ton capacity, some with double walls and some with an additional tank suspended by springs in the inside, presumably for highly explosive liquids. The production schedule of 15 tank cars per day was surpassed by two and sometimes even eight cars. A production chart, presumably of 1948, indicated an annual production of 6,000 tank cars.

25X1A * Comment: This is the first postwar information on the Hich Plant. The location of this plant was previously known. Jource II, whose statements vary from other information furnished a sketch of the plant layout (...nex 2), which, according to a prevar sketch, seems more credible than ...nex 1. Clarification by additional reports is required. The

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arrangement of the essential plant departments was correctly recorded by all sources. Of the two groups one (with rolling mill, open-hearth plant, etc located close together) is in the plant center, and the other group with scattered workshops for tank car production is in the western plant section. This western plant part was previously designated "Aulbyshev."

25X1A ♣

comment: The information on the installations and production of the main workshops is of special value. The main plant production is rail-road tank cars. As the reported capacity varies from 20 to 60 tons, it can be assumed, that different sizes of railroad tank cars were produced (also see Legend to Annex 4). The assumption of one source that special cars for the transportation of highly explosive liquids are produced, is confirmed by another source mentioning cars for liquid air (see legend of Annex 1, para 13). Coordinated with data on the daily production, the monthly output of 365 tank cars seems correct.

4 Annexes: Department A of the Ilich Steel Plant and dolling Mill in Shdanov (Mariupol) (4 sketches)

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Legend to nnex 1

Flant A

- 1 Two blast furnaces under construction to be blown in by late 1949
- 2 Molding shop under construction
- 5 Foundry with two wings, each 70x30x10 meters, production of small parts for plant requirements
- 4 Office of a construction firm
- 5 Workshop, 120x30x12 meters, manufacture of railroad car axles, no details available
- 6 Grinding shop, 50x40x12 meters, with two reallroad connections and four traveling cropes
- 7 Department No 7, sheet rolling mill, iron structure with brickwork, 150x30x12 meters with six annealing furnaces and railroad connection, manufacture of plates, 12x3.5 meters, 10 to 15 am thick
- 8 dolling mill, 150x40x12 meters with six oilburning annealing furnaces, one mill train and four traveling cranes, manufacture of sheets.
- 9 Ruins of former workshop, 100x50 meters being cleared and to be reconstructed
- lo Pipe department, l(Cx50x10 meters, manufacture of welded pipes, 6 meters long 50 to 60 cm in diameter, with threads at the ends.
- 11 Upen-hearth department wo 1, iron structure, 150x40x12 meters with eight open-hearth furnaces, two of which were reserves

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- 12 Open-hearth department No 2 reconstruced with two furnaces being fitted, 100x50x12 meters.
- Department No 8 and department "P", 200x100x18 13 meters, iron structure, with 8 to 10 annealing furnaces for gas and oil fueling, one oil bath, one American press, and one German Johanniter press of allegedly 8,000 tons capacity, and 12 traveling cranes. Eanufacture of frames for railroad tank cars, walls for tanks, final planing of armor plates for ships, manufacture of all single (component) parts for the construction of railroad cars, such as springs, spring brackets, and bearings. All machines came from Koenigshuette. The installation of additional machines from a German rolling mill was planned. A German tank car for liquid air was disassembled here and used as model for the construction of three Soviet tank cars of that type. The tank had double aluminum walls, insulated with glass wool, and was mounted on the chassis. With a protecting sheet-metal house the tank car had the appearance of a 60 ton freight car.

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- 14 Mechanical department, 1c 0x50x10 meters, repair shop for machine tools
- 15 Manufacture of tank cupolas, very strictly guarded. Cupolas were about 60 cm high, 100 to 120 cm in diameter, and had openings for the gun barrels.
- 16 Mechanical department, 80x30x10 meters, with railroad connection, manufacture of small parts.
- 17 Old power station, 100x60x20 meters with threesheet-metal smokestacks on the roof. As it was strictly guarded no details could be obtained.
- 18. New poer plant under construction, 80x50 meters foundations started. Overhead pipes (2.5 meters above surface) were constructed between the blast furnaces and here

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CONFIDENTIAL-CONTROL/US OFFICIALS ONLY 3/Annex 1

- 19 Construction department for iron structural parts for reconstruction requirements, rail-road connection available. Size 150x50x10 meters
- 20 Stores, 120x40x15 meters with steel slugs, 1 meter long, 40 cm in diameter, presumably for the production of oxygen cylinders. Asileroad connection available
- 21 Iron structure workshop with brickwork, 300x 60x15 meters with railroad connection, manufacture of oxygen cylinders.
- 22 Destroyed workshop
- 25 Department "7", 200x80x50 meters, subdivided into three spans, with 12 traveling cranes.

 Assembly of chassis for tank cars, and mounting and painting of tanks (dark colors). Armor plates for shops are also processed here.
- 24 Department *p*, 200x80x15 meters, with three spans and railroad connection. Handfecture of tanks to be mounted on railroad cars.
- 25 Electrode department, 80x15x8 meters
- 26 Dug cages for dogs, which watched the fence during the night
- B Department B, was never entered by source
- c process No 7280/1

The buildings were in a fair condition.

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Legend to Annex 2

- Department to 1, 150x40x25 meters, a new surrounding wall and a new concrete roof were constructed during the Summer of 1949, manufacture of seamless pipes (oxygen cylinders)
- 2 and 3
 Two workshops, 150x40 meters with partially glassed sheet-metal roofs, manufacture of tank cars
- 4 and 5
 Two new workshops, 150x40 meters, equipped with very large machines in 1949, production did not start
- 6 geveral buildings of unknown purpose
- 7 Jorkshop, 100x20x6 moters, manufacture of tenk cupolas
- 8 Hardening shop, about \$50 meters long, with five hardening furnaces in operation and two under construction, manufacture of railroad car axles, and armor plates
- 9 Hosting plant, 60x15x8 meters, coal-fueled, with one smokestack
- 10 Power station, 50x25 meters, three stories, switching installations could be seen through the windows, no noise from machines could be heard
- open-hearth plant, 50x20x10 meters, with five oil-burning furnaces and four smokestacks as the northern side of the building
- 12 Workshop, 400x40x20 meters
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CONFIDENTIAL-CONTROL/US CAPICIALS ONLY 2/Annex 2

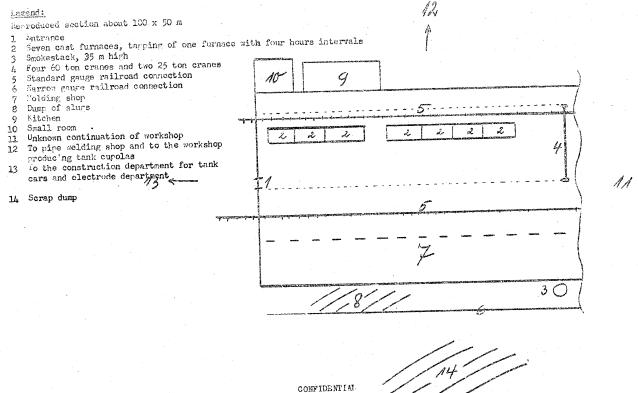
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| 13 | a Rolling mill b Pipe welding shop c Thread tapping shop |
|----|---|
| 13 | Sheet rolling mill, 300x30x10 meters |
| 14 | Sheet rolling mill, 350x30x10 meters |
| 15 | Lathe shop, angular-shaped building, 60 or 50x20x10 meters, with four large lathes and many smaller machines, processing of railroad wheels |
| 16 | Auxiliary building, 50x15 meters, several stories |
| 17 | Destroyed workshop, 50x15 meters |
| 18 | Reilroad connection to Department "B" |
| 19 | Railroad junction in the plant |
| 20 | Railroad sidings |

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Department A of the Ilich Steel Flant And Holling Lill in Shdenov (Lariupol), Foundry



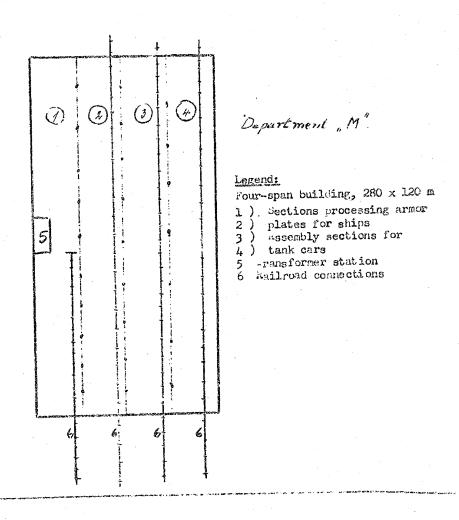
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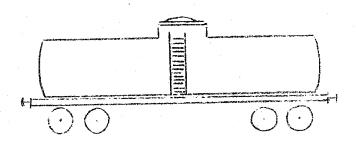
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Annex 4

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Tank car monthly output 365, four axles. Inscription: 25 tons.

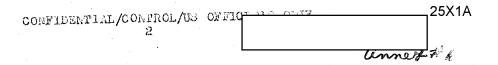
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1 Location:

Flent department B is the southern and smaller part of the Ilich Flant northeast of Shdanov (Mariupol) (37°34 E/47°07'N), Ukrainian SSR.



2. Plant installations:

The open-hearth plant, boiler shops, mechanical workshop, railroad car repair department and the lime kilns had been reconstructed by May 1946. By November 1948 the steel foundry, rolling mill, molding shop, store of molding sand had been newly constructed and were in operation. Reconstructions were not completed by August 1949, one workshop in the eastern plant section still being under construction. Dismantled machinery and equipment from the German steel plants in Riesa and Lauchhammer was scattered, unused, in the plant erea. The very large main plant building, 150 x 40 x 12 meters, divided by a line of pillers into two spans, housed the following departments: (for main plant building see Annex 2; for plant layout see Annexes 1 and 3.)

a. Open-hearth plant

In January 1949 one of the two equal sections of the open-hearth plant (75 to 80 meters long) was still under construction. The other section already had eight furnaces placed in numerical order with three in operation. A ditch for mould casts was in front of them. An additional open-hearth furnace (No.17) south of the others and constructions in the uncompleted plant section indicated that more open-hearth furnaces were to be installed. With each of the three operating open-hearth furnaces being tapped once per shift, the following output was calculated: 3 open-hearth furnaces x 70 tons capacity x 3 shifts - 630 tons per day. The empty ladle meighed 32 tons.

In September 1949 five furnaces numbered 12 through 16 had a capacity of 75 tons each. New openhearth furnace No. 12 was put into operation in the Fall of 1949. The furnaces, 4.5 x 4.5 x 3 meters, three of which were in simultaneous operation, were charged from the rear. Each furnace was tapped once within a period of eight hours. The lining above the trough was removed at intervals of three to four months and reconstructed within 15 days. Each second overhauling, including the dismentling and new construction of heat chambers, lasted 25 days. A 10-ton open-hearth (No. 17) for mould casting stood south of the other furnaces and a small electric furnace was farther south of here. Two charging cremes were available and a third one was to be constructed for furnace No. 12. Flux materials, such

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as nickel, molybdenum, silicon, chromium and aluminum were shoveled manually into the furnaces. Most scrap of the dumps had come from Soriet occupied Germany while the continuously arriving scrap came from the Doviet Union. The open-hearth plant produced 4-ton ingots for rolled steel sections, 1.5 ton ingots for plates. For sketch of open-hearth plant see Anna X 4.

One source reported that the open-hearth plant was equipped with four oil burning furnaces, each with a capacity of 75 tons. (September 1949).

b. Rolling mill

This installation was reported as having three steam driven rolling sets, one 4 x 2.5 x 2.5 maters and two 1.5 x 2.5 maters; three oil burning annealing furnaces; a saw; a straightening machine; a circular cast furnace for the production of special steel; and ceiling cranes. (See Annex No. 5). According to one source the rolling mill had two mill trains for thin sheet metals and several rolls for section irons.

c. Foundry

The foundry, according to one sourse, had two furnaces, 3 meters long and 2 meters high, for cast iron and produced railroad wheels and wheel bushes. Another source reported that it had three steel casting furnaces and produced spare parts for railroad cars, such as alle bearings, guide bushes, puffers, etc.

25X1C

d. Electric tilting furnace

This furnace, 3 meters in diameter, 1.5 meters high, was for fine steel and produced tank cupolas.

e. Silicate department

This was designated "Dolomit" pit and was a concrete building, 30 x 30 meters, with four smokestacks. It had store grinding mill and an elevator frame/with two between decks to charge and discharge the furnaces; and four circular furnaces, 3 meters in diameter and 18 meters 3. Work force:

Work was done in three shifts, each shift with an estimated 4,000 laborers.

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4 annex # 12

4. Production:

Steel plates, various types of section iron, especially corrugated iron, railroad wheels and puffers, tank cupolas, wheels 3 meters in diameter, and repair of railroad cars.

25X1A

Comment:

- a. This is the first report to give postwar information on Flant B of the iron and steel plant in Shdenov. The plant location was previously determined.
- b. The statement's mostly cover the main plant building housing open-hearth plant, rolling mill, etc. The following picture of the open-gearth plant was determined, although the data are partially conflicting and not completely clarified.
- (1) The number and numerical designation of open-hearth furnaces varies with the different information, but six open-hearth furnaces standing in one line in the northern section of the building seems to be factual, especially as the same number of smokestacks was reported by a previous aerial photograph. All information agree that the eastern furnace was still under construction in 1949.
- (2) The purpose of five to seven additional open-hearth furnaces as well as of furnace No. 17 was not determined.
- (3) As all information report one electric furnace, the production of special steel seems correct.
- (4) While all other sources agree on the arrangement of the open-hearth furnaces, the fine steel furnace, and the unidentified types of furnaces, source V was obviously mistaken as to the location of the electric furnace and the dimensions of the open-hearth plant and rolling mill which are too small on Annex 5.
- (5) The furnace capacity is beliaved to be 70 to 75 tons. Three furnaces are simultaneously in operation. As it is doubted that each furnace can be tapped three times a day, the calculation of source III seems too high. With the sixth furnace in operation and with four furnaces working simultaneously, the following output could be assumed for the present time:

 4 x 2 x 70 560 tons per day.

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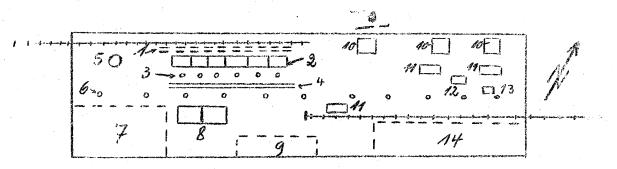
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Annex 5

annex # 12

Open-hearth Plant and Rolling will of the Ilich Plant Department "B"
in Shdanov (Lariupol)



Legend:

- 1 Crane installation charging open-hearth furnces
- 2 Open-hearth furnaces No. 1 through No. 6, No. 6 was in early 1949 still under construction
- 3 Dimple for lables
- 4 Ditch for mould castings
- 5 Furnace for high grade steel
- 6 Line of pillars
- 7 selding shop for tank cupolas, separated by sheet setal walls
- 8 Two furnaces for cast iron
- 9 Lime dump
- 10 Three annealing furnaces
- ll Three rolls
- 12 Straightening machine
- 13 Shears
- 14 Storage dump

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| Legal: 1 Upen-hearth plant %c. 9 a Five open-hearth furnaces, the one in the ease by 1949 | |
| b Casting area c Soundry sand pit d Mailroad connection e Switching instal ation f Furnace do. 17 g Transformer station b Mactro furnace | 2 8 6 5 4 |
| 1 Charging track for furnace No. 17 2 Storage for ore and oil pump 3 Fire clay mill 4 Lolding sand dump 5 Laboratory 6 Fitting shop 7 Storage dump | e d |
| 8 Main office of open-hearth plant 9 Canteen | a a a a a |
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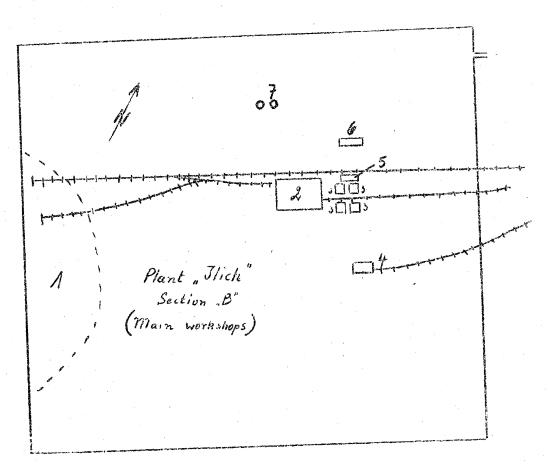
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Annex 3

Legend:

- Scrap dimp min workshop, about 300 x 200 m with open-hearth plant, steel foundry, 1 molding shop and rolling mill
- Four boiler houses
- 4 mailroad car repair department
- -echanical morkshop
- country, 100 x 50 m Lime kilns



COLFILENTIAL

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Annex 2

Legend to Annex 2 (cont'd):

- 20 Storage dump for steel plates
- 21 Three sheet rollers for special corrugated iron, sheets 2 x 1 maters with three bents.
- 22 Right anesling furnaces for steel bars
- 23 Head of a third mill train
- 24 Frimary roll
- 25 Shears
- 26 Three section rolls
- 27 Back transporting device to No. 23 above
- 28 Shears
- 29 Storage dump for bars
- 30 Large machine
 - a Fly wheel
 - b Small wheel connected to fly wheel by a wire rope, presumably driving the rolls.

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Annex 2

Legend to Annex 2:

- Several open-hearth furnaces standing in one line
- 2 Mould casting area, size of molds 2 meters long, 50 x 50 cm at the bottom, 30 x 30 cm on top
- 3 Several annealing furnaces
- 4 Five to seven furnaces with unknown purpose
- 5 Casting area for large pieces, such as tank cupolas and wheels, 3 meters in diameter.
- 6 Molding shop
- 7 Drying furnace for sand molds
- 8 Casting area for small pieces, such as railroad wheels, puffers, axles, bushes etc.
- 9 Electric furnace, 2.5 3 meters in diameter, 4 meters high
- 10 Fitting shop
- 11 Two julting devices, removing mould send from cast pieces, one of which under construction
- 12 Conveyor belts for foundry sand
- 13 Head of a mill train, about 1.50 meters wide
- 14 Dimple with compressors

 a Steering tower for the operation of the roll
- 15 First roll, ingots passed here three to four times
- 16 Smell shears, cutting steel striped up to 10 cm thick/to width and length. Thicker steel stripes are transported to the second mill train (17).
- 17 Second mill train
- 18 Large shears
- 19 Two shears not in operation

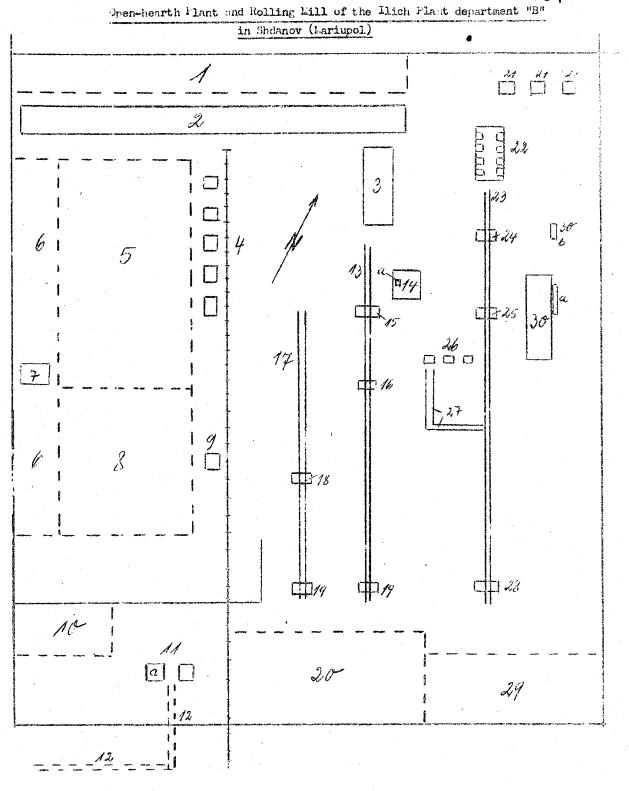
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Annex

anner 12



Stretch

of the produced corrugated

iron sheets

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2

Connex # 12

Annex 1

Legend to Annex 1 (cont'd):

- 26 Sawmill and carpenter shops
- 27 Resting room for civilian laborers
- 26 Signelman's house
- 29 Guard house
- 30 Saveral storage buildings
- 31 Water filling station for locomotives
- 32 Coal dump.

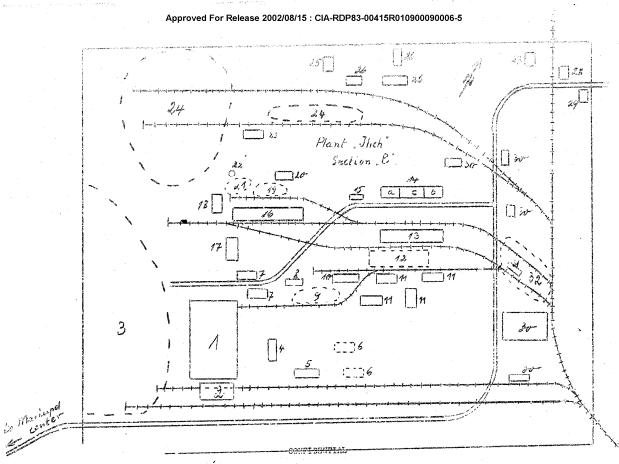
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Annex 1

Lagend to Annex 1:

- l Open-hearth plant and rolling mill, 200 x 150 meters, for details see Annex 2.
- 2 Railroad car repair department
- 3 Screp dump and crushing installation
- 4 Administration
- 5 Mess hall
- 6 Ruins
- 7 Presumably power stations (two)
- 8 Water basin
- 9 Storage dump for armor plates
- 10 Forge
- 11 Four boiler houses, each with one smokestack
- 12 Storege dump for armor plates
- 13 Model-making carpenter shop, and crane repair shop
- 14 Foundry (a), molding shop (b) lathe shop (c), 150 x 20 meters
- 15 Welding shop
- 16 Spare parts store
- 17 Kitchen
- 18 Production of water glass
- · 19 Storage dump of armor plates
- 20 Pump plant
- 21 Storage dump of lime stone
- 22 Lime stone mill
- 23 Silicate plant
- 24 Coal dumps
- 25 Forge

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c. The number and production of the mill trains are alike in all statements, except for the production of some specially corrugated from as reported by only one source. Type and size 12 x 1 meters with 3 bents) of these sheets indicate that they are produced for roofings.

d. Except for the location of the most essential plant buildings, such as open-hearth plant, rolling mill, boiler houses and foundry, Annex 1 and Annex 3 are at variance. Annex 3 gives a diagrammatical reproduction of the main plant buildings only. The general arrangement of the plant buildings agrees with a pre-war aerial photograph taken before the plant was destroyed. As reported by Annex 3, the plant extends in east-west direction. The location of the railroad car repair department south of the main plant building is correct on Annex 1, whereas Annex 3 is mistaken on this installation

The present plant layout needs confirmation by additional sketches.

5 Annexes: 1. = 5. Flant B of Ilich Steel Flant and Rolling Mill in Shdanov (Mariupol).

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| | | | | | |
| | 1. | Location: | | | |
| | | of Ariunol (37034'1/4700 |)7 * 温)。 | ruction about 8 km northwest Ukrainian com, north of the d on maps) in the course of | |
| | | | | | |
| | 2, | Status of construction: | | | |
| | | to Joviet statements it was to learn wide Kalchik | mas pl | arted in October 1948. According anned to dan the water of the by a reservoir and thus faci-industrial installations of | |
| | b | road which branches off a town border and loads to and about 4 km long. A s | 2 or 3 Kalch ingle- | ed to the construction of a km northwest of the Lariupol ik. The road is 4 to 5 m wide track railroad line from Mariu- chik was also under construction | • |
| | · c | Malehik is a newly constabout 20 stone apartment buildings. | ructed house | village and is composed of s and several cantonnent | , |
| | a | It was conerally said the dan was to start in 1950 were made during the tim | and t | main construction work on the that preliminary preparations by servation. | |
| ·, | 3. | Work force; | | | |
| | | About 700 German PWs and laborer, working three s | an u bifts | nknown number of Soviet civilian | |

- 2 -

For location see Innex.

9 #13

4. A reservoir is under construction about 10 km northmest of Ariupol. According to a Soviet engineer this construction is preliminary to the operation of the industrial installations of this area.

5. A small lake, located in a mountain range, will be considerably enlarged to form a reservoir by the construction of a dam. From this reservoir the water will fall down the natural inclination to the industrial installations of the city through cast-iron pines,

25X1X

that down the natural inclination to the industrial installations of the city through cast-iron pines,

25X1X

25X1X

25X1A Comment:

The installations are reported for the first time. The main purpose of the reservoir will be to supply water to the industries of Tariupol. This can be derived from the construction of the water pipe line reservoir Bariupol. It cannot be determined whether it is intended to increase the capacity of the already operating power plant after this project is completed. So far no details are available on the power plant. From the corresponding statements of both sources it can be assumed that the information is correct.

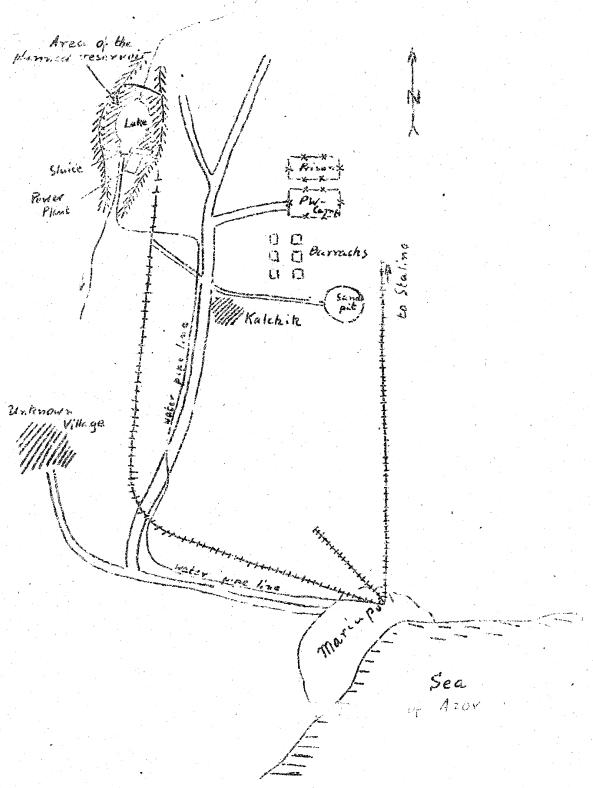
1 Annex: Lketch on ditto, Reservoir under Construction near Ariupol.

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Annex

Reservoir under Construction near Lariupol



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Stalino.

Installations.

The plant is rather old and was 80 percent destroyed by the Soviets during the war. Its reconstruction started in the Summer of 1944. The first blast furnace was put into operation in July 1945, the second in August 1945 (Soviet statements). The buildings are brick structures except for the bigger ones which are of steel and masonry. They are in good condition. According to coviet statements, the destroyed rolling mill is to be reconstructed a considerable distance east of its former location. Its previous site was leveled and is to be used for the planned blast furnace plant and for the loading and dispatch station. Four blast furnaces are in operation, two others are still not reconstructed. Electric power is produced in a factory power plant.

The available railroad connection was being expanded. approach road is in bad condition.

3. Work Force

About 4,000 in each of the three shifts in addition to 400 to 500 PWs doing construction work or employed as helpers.

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#14

4. Production

Crude iron. For layout sketch, see Annex.

25X1A

Comment:

This is the first postwar information on the Metallurgical Plant in Voroshilovsk. Attached as Annex 2 is an old photograph of the blast furnaces of the plant.

2 Ennexes: 1. Metallurgical Flant in Voroshilovsk

2. Blast furnace in Voroshilovsk

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CONFIDENTIAL_CONTROL/US OFFICIALS ONLY 1 / Annex 1

#14

Legend to annex 1

- 1 Administration, brick building, 180 x 9 x 6.3 meters
- 2 Administration, brick building, 135 x 9 x 6.3 meters
- s rooden shed
- 4 Two cooling ponds
- 5 Coiler house, 27 x 13.5 x 7.5 meters
- 6 Small buildings of unidentified purpose
- 7 Two ponds
- 8 Steam power forge, 54 x 30 x 22.5 sters with a 36-meter brick snokestack
- 9 dechanical department, 90 x 27 x 13.5 meters
- 10 menair shop
- 11 Brick magazine, 90 x 18 x 7.5 meters
- 12 Cooling tower, 27 meters high and 13.5 meters in diameter
- 13 lolding shop
- 14 Building, no details available
- 15 lachine oil magazine
- 16. Cantonment building
- 17 Cas purification plant, steel and masonry structure, 31x 27 x 13.5 meters
- 18 Fire department
- 19 Two magazines, each 13.5 x 7.5 x 7.5 meters, storage of spare parts for the blast furnace plant
- 20 Mitchen and mess hall, 30 x 13.5 x 10.8 meters
- 21 Unidentified building
- 22 Foundry, steel and masonry structure, 72 x 36 x 18 meters
- 23 Destroyed rolling mill
- 24 Iron foot bridge over the former rolling mill and tracks
- 25 Unidentified building
- 26 Blast furnace no 1, allegedly of US origin with fully automatic charging devices and blast heating apparatus

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COMPIDENTIAL-CONTROL/US OFFICIALS ONLY 2 / Annex 1

#14

- 27 Blast furnace No 2, same as furnace No 1
- 28 Two destroyed blast furnaces
- 29 Blast furnace No 3, smaller than the others and obsolete, charged by hand
- 50 Blast furnace no 4 with modern inclined lift, charged in a primitive way
- 31 Perpendicular hoist for blast furnace No 3
- 32 Inclined hoists for blast furnaces No 1 and 2
- 33 Filling bunkers
- 34 Ore dump.
- 35 Mobile bridge crane
- 36 Steam nower plant, no details available
- 37 Four wood-lined cooling towers, 27 meters high and 15.3 meters in diameter, hexagonal
- 38 Coal storage shed, 126 x 36 x 13.5 meters

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| 2. | Instal | llations | | | | | - |
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CONFIDENTIAL_CONTROL/US OF FIGURES ONLY 1 / Annex 2

#15

Legand to Annex 2

- A Coking and Chemical Flant
- l Destroyed building
- 2 Three filled naphtalene tanks, 10.8 meters long, 2.4 meters in diameter
- 5 Boiler house, brick building, 13.5 x 13.5 x 9 meters with sheet-metal smokestack, equipped with a lying coal-burning flue boiler
- 4 Pitch dump
- 5 Two cooling towers, 18 x 5.4 x 10.5 meters, for the production of naphtalene
- 6 Naphthalene plant, steel and slugstone structure, 54 x 18 x 9 meters
- 7 Brick building under construction, 18 x 18 x 7.5 meters, with a basement, 7.5 meters deep and a thick reinforced concrete floor.
- 8 Three standing tanks under construction, 7.5 meters high and 7.5 meters in diameter
- 9 A lying tank filled with tar, 10.8 pters long. 2.4 meters in diameter, resting on concrete foundations
- 10 Boilerhouse, brick structure, 45 x 18 x 13.5 meters, with three sheet-metal smokestacks and four lying coalburning flue boilers. The boiler house operates only for the power plant
- 11 Brick power plant, strictly guarded, 27 x 27 x 13.5 meters. No details available
- 12 benzel washing plant with 12 beilers, each 16.5 meters high and 45 meters in diameter
- 13 New concrete smokestack, 112.5 meters high
- 14 Coking plant, 225 x 10.8 x 5.4 meters, with three coke oven batteries. A laboratory is over each battery
- 15 Overhead bunker
- 16 Underground bunker
- 17 Conveyor belt from the underground bunker to the coke washing plant
- 18 Conveyor belt to the overhead bunker
- 19 Coke washing plant, 90 x 27 x 18 meters a Coke loading point

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CONFIDENTIAL CONTROL/US OFFICIALS ONLY 2 / Annex 2

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- 20 and pond
- 21 Two brick smokestacks, each about 90 meters high
- 22 Unknown plant
- 23 Footbridge
- 24 Main pipe line, at a height of 3.6 meters, about 60 cm in diameter
- 25 Wooden coke quenching tower 13.5 x 4.5 x 9 meters
- 26 Two magazines with loading ramps, wooden structures, 36 x 5.4 x 4.5 meters each, tools and spare parts magazine
- 27 Three-story administration building, 18 x 7.5 x 9 meters
- 28 Three-story administration building, 13.5 x 7.5 x 9 meters
- 29 Factory bolice and .ND Hq, brick building, 10.5 x 7.5 x 3.6 meters
- 30 Hexagonal cooling tower, 13.5 meters high and 15 meters in diameter, ta ering off toward the top
- 31 Cinder dump
- 32 Overpass, clearance 7.2 meters
- 33 Appreach to overpass
- B PW Camp No 7144/13
- C Euflding materials plant
- 1 Cement plant, 38 x 27 x 9 meters
- 2 Four cement silos, each 10.8 meters high and 3.6 meters in diameter
- 3 Cement stone plant, 27 x 27 x 5.4 meters
- 4 Savmill with carpentry
- 5 Line kiln
- 6 Kitchen and mess hall
- 7 Sauna
- 8 Fire department

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2 Ammexes: 1.)
Coking Plant in Voroshilovsk
2.)

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#16

Legend to ...nex to

- 1 Blast furnace plant equipped with five blast furnaces
- 2 Ore storage
- 3 Foundry
- 4 Coking plant
- 5 mehine shop
- 5 geveral interconnected buildings with stores and offices, no other details available
- " Stores
- 8 Forge
- 9 Completely destroyed rolling mill, no reconstruction ob-
- lo Overpass for pedestrians
- 11 Yorkshops with small foundry, die and sawmill
- 12 Administration
- 13 -ein entrance
- 14 Stores
- 15 offices
- 16 Reating plant
- 17 yarn water pond
- 18 Carpenter shop
- 19 offices
- 20 cold water pond
- 21 Forge under construction
- 22 Fitting shop and stores
- 23 Two new buildings, purpose unknown

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#16

b. Differences may be explained by the great number of buildings, the exact locations of which are hard to remember.

c. idditional information is required to obtain a clear picture of the present status of the plant particularly regarding size and type of construction of the individual plant buildings.

| TOPIC KHELL LATE TO LICET OF LIGHT IN Lapromatch 25X1X 25X1X 25X1X 25X1A ANNEX 13 PLACE OBTAINED PLACE OBTAINED REPARED 20 April 1950 REFERENCES PAGES ENCLOSURES (No. & TYPE) Blue print REMARKS SOURCE X1X | CONTRY Soviet Union | | | • |
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1. Location:

 $1\frac{1}{8}$ km southeast of the center of Pervomeisk (38°33'E/48°37'N), Ukrainian SSR, in the fork formed by a highway and a single-track railroad line. (see Annex)

- 2. Installations:
- a. The plant was built 15 to 20 years ago. Its installations were little damaged during the war and by July 1945 all damage had been repaired.
 - b. From mid-1945 onward the plant received dismantled German machinery which according to the observed name plates, came from the AEG firm in Berlin.
 - c. The construction of a new ascembly hall was begun in 1946; its foundations and steel skeleton were completed in August 1947, while the outer brick walls were only 50 percent completed. The machinery which was to be installed here was stored or both sides of the new building. Only part of the machines were covered with tarpaulins. The factory has railroad connection. For plant installations, see Annex. Power was supplied from without.
- 3. Work force:

Three shifts with a total of 2,500 Soviets and 170 FWs employed as building workers and specialists.

4. Troduction:

Electric motors for mines, various transformers.

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Legand to Annex:

- A Kerl Mark Electric Motor Flant
- 1 Administration building, 45 x 18 meters. Over the gate near the administration there was a board with the inscription "Zavod Karl Marx".
- 2 Assembly hall under construction, 70 x 23 meters
- 3 Assembly hall, 90 x 27 meters, with
 - a Lathe department
 - b Toolmaker's shop
- 4 Armature winding department
 - a boilerhouse, 45 x 18 meters, equipped with three old boilers; one 35-meter smokestack
- 5 Electric department, 18 x $13\frac{1}{2}$ meters, repair shop for all electric installations and the transformer station of the plant
- 6 Forge, 23 x9 meters, equipped with an oil-burning annealing furnace and a German air hammer
- 7 Punching shop and apparatus department, 45 x 35 meters
- 8 Foundry, 35 meters square, with a furnace for grey castings and a metal smokestack, 23 meters high. The forming department is also in this building.
- 9 Loading ramp, 90 deters long
- B Samp No 7144/9

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18

25X1A

Comment:

The existence of this plant was previously reported. The report is valuable because of its accurate data on the location of the plant and the attached location sketch. Source also furnishes essential supplementary information on the plant layout and the type of construction of the individual buildings.

1 Annex: "Karl Marx" Electric Motor Flant in Pervomaisk.

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| REFERENC | DES | 5X1A | a demonstration of the supplication of the sup | er kun – staten sur sur surespektigis (*** |
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| 25X1X | | | | |
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| Source | | | | |
| 1. | part of ORDER lake. Of the the fourth be A fifth blast | generally designated Enski-Metal Savod). It is ONIKIDZE, Ukrainian SSR, four blast furnaces, thing still filled with so furnace was to be put if (for location, see Annace was see and | s in the southeastern north of a small pree were in operation, plidified iron and slugs | |
| 2. | Location | | | |
| | The EIS Plant (38013'E/4801 | is on the southeastern 3'N), north of a lake. | border of ORDZHONIKIDZE | |
| 3. | Installations | | | |
| 25X1X | one of the fo was completed const ucted in in Parch 1949 blast furnace were located | were in operational cor | A fifth blast furnace hearth furnace was started operating ilding northwest of the 1949. The offices | |
| 25X1X | under construc | A water tower, | 300x75 feet, was in diameter | |
| | with the coking meter, and by was a large by | TO Was built on higher t | ed on Chemical Plant No. errain and was connected nes of about 5-foot dia- In the rear of the area stacks each about 250 | |

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#19

silver-gray tanks of 75-foot diameter and about 175 feet high. (for sketch of plant installation see Annex 2).

4 ork lorce

About 5,000 workers including 900 F's and 400 convicts.

5. Production

Rails, U and T-girders, armor plates, sheets and wire.

25X1A

25X1

Comment:

a. The previously received reports clarified the location of the plant as southeast of the town. Forever, contradictory statements were made relative to a lake located on the edge of the plant area. From the present report it becomes clear that this small lake is directly south of the plant, while Chemical Plant to 25 borders on the iron and steel plant on the northeast. The contradictory statements on the lake are probably due to errors in recalling as there is a large reservoir at a greater distance northeast of the plant. An aerial photograph of ORDZHOWIKIDZE and its surproundings is attached as large.

25X1

b. The attached sketch of the plant installations seems to be rather schematic, taking into account the largeness of the plant. Fowever, the evaluation of the report in connection with previous information yields a fairly clear picture. The result of this evaluation is represented by the diagram of Annex 4. Subsidiary plants such as the slug stone factory, the brickyard, sawnill, etc., have not been entered on the sketch for the sake of clarity.

- 4 Annexes:
- 1. Location of the Metallurgical Plant in 0 10 TO MIKIDZE
- 2. Installations of the letallurgical Plant in ONDZHOWIKIDZE
- 3. ORDZHOTIKIDZE, Ukrainian SSR
- 4. DIAGRAM of the Metallurgical Plant in ORDEHODIKIDZE

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SECRET-COMTROL/US OFFICIALS ONLY 1 / Annex 2

#19

Legend to mnex 2

- Four blast furnaces in operation. The entire block is 900x150 feet
- Steel foundry with two Bessemer convertors and two cast vaults (a through d), 400x150x45 feet
- 3 Open hearth plant with four open hearth furnaces, 1,500 x90 feet
- 4 Rolling mill with two trains of rollers for the production of armor plates, 600x150 feet
- 5 "ire mill
- 6 Rails and pass rolling mill with three four-high trains of rollers
- 7 Mechanical department, mainly for the regrinding of rollers, 600x240 feet
- Storage site for rolled products with railroad connection
- Coking plant with several pipe lines to the adjacent Plant No. 23 (9a), 600x30 feet
- 10 Three-story administration building, 450x150 feet
- 11 Compressor house, strictly guarded, 600x150 feet
- 11a Pipes from the compressor house to the blast furnaces and the steel foundry
- 12 "ater tomer
- 13 Dan made of slugs
- 14 ain entrance

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SECRET-CONTROL/US OFFICIALS O'LY 1 / Annex 4



Legend to Annex 4

17

Coking plant

| | · |
|----|------------------------------------|
| 2 | Administration |
| 2 | Power plant |
| 5 | Gus purifying plant, blovers |
| 4. | Agglomerating plant |
| 5 | Gasometer |
| 6 | Blast furnaces |
| 7 | Ore dump |
| 8 | Raw material dumps |
| 9 | Open hearth plant |
| 10 | Bessemer Plant |
| 11 | Annealing furnaces |
| 12 | Rolling mill |
| 13 | Storage site for finished products |
| 14 | Rechanical department |
| 15 | Foundry |
| 16 | Chemotte plant |

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| SOURCE | | |
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|] | Lot ation: | |
| , | In the southeastern section of Ordzhonikidze (38013'E/48013'N) | i e |
| | Ukrainian SSR, north or the western tip of a lake. | |
| 2. | Plant installations: | |
| | The plant covers about 2.4 x 1.9 km. The reconstruction of | |
| | the plant, which was destroyed by the retreating Soviets, was begun during the German occupation and continued after | |
| | the withdrawal of the Germans with PW labor. | |
| • | a. Blast furnace No 3 was the first to be put into operation in April 1947. Blast furnace No 1 resumed production in | |
| | August 1948. The reconstruction of blast furnace No 2 was | , |
| | completed at the same time. According to source, it must have been blown in by October 1949. | |
| | b. The newly constructed so-called "stand 360" went into | |
| | production in April 1949: A sewerage system was completed in the factory area in August 1949 but it will hardly be | |
| | in operation before mid-1950. Three shifts of 200 PWs each were employed on the construction of the sewerage system. | |
| 05747 | Mate amplohed on mis courties from or the sewarase sharem? | |
| 25X1X | | |
| 25818 | c. Two Bessemer converters were installed in the Bessemer department, three open hearth furnaces in the Martin | |
| 25818 | c. Two Bessemer converters were installed in the Bessemer department, three open hearth furnaces in the Martin department. | |
| 25X1X | department, three open hearth furnaces in the Martin | |

Three shifts with a total of 15,000 Soviets in addition to

SECRET/CONTROL/US OFFICIALS GNEY

annex#20

1,100 German TWs, 1,200 ethnic Germans from Rumania, and 800 other interness.

4. Froduction:

Rails and rolled sections of all kinds. Round iron up to 15 cm in diameter, plates for naval craft and armor plates.

25X1A

Comment:

- a. The existence of the Metallurgical Flant in Ordzhonikidze was known before. Several reports on it have been transmitted.
- b. Its pinpoint location was stated in a previous comprehensive report * to which an aerial photograph was attached.
- c. The attached layout sketch is very detailed. The distribution of the individual workshops is in agreement with the picture resulting from previous information.

The layout sketch is accompanied by a very detailed legend. The report, whose content is relatively recent, is considered credible and complete.

1 Annex: Metallurgical Flant in Ordzhonikidze.

Lagedd to Annex:

1 Blast furance department with five blast furneces.

Blast furnace 1, reconditioned in 1948; the materials were delivered by truck, the furnace has an automatic inclined hoist.

Blast furnace 2, newly constructed; the materials were delivered by means of an underground electric railway; the furnace had an automatic inclined hoist and tippling cars.

Blast furnace 3, sat up same as of blast furnace 2, started operation in the Spring of 1947.

Blast furnace 4, the oldest furnace, the materials were delivered by two-wheel mine cars, lift.

Blast furnace 5, out of operation, completely unusable and scheduled to be demolished;

ta Coke Plant with three batteries of 25 to 30 chambers each, in operation.

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annex +20

- 2 Bessemer department; steel and masonry structure, sheet metal roof, 45 x 36 x 16.5 meters. Two Bessemer converters and two 10-ton cranes.
- 3 Open hearth plant, type of construction same as 2 above; three open hearth furnaces, three 15-ton cranes and several lighter cranes; 135... x 27 x 23.5 meters
- 4 Rolling mill with five gas fired annealing furneces and "stand 800", train of rollers with one blooming roll and three finishing rolls for the production of rails and iron profiles.
- 5 "Stand 550" with one furnace, two slide-ways for ingots of up to 600 kg and three rollers for profile iron, round iron, and narrow-gauge field railway tracks. The rollers of stands 800 and 550 are operated by steem engines.
- 6 Straightening department, called "Relsodeleniye". Rails and profile iron are checked, straightened, punched, milled, and readled for shipping. Dimensions of buildings 4,5 and 6 together: 117 x 67,5 x 18 meters.
- 7 Storage site for products ready for shipping; several cranes.
- 8 "Stand 360", steel and masonry structure with sheet metal roof, 90 x 18 x 18 meters, with one annealing furnace, two slide ways for ingots of up to 750 kg, one blooming roll, three finishing rolls, and two cranes. Iroduction of angular, hoop, rod and profile iron. The department was put into operation in the Spring of 1949 but did not yet work to capacity in August 1949 since new deficiencies continually became evident. The rollers were operated electrically.
- 9 Storage shed for ingots delivered from "Stand 360", steel and masonry structure with sheet metal roof, 72 x 22.5 x 18 meters.
- 10 "Stand 280", type of construction same as 8 above, 117 x 18 x 18 meters with two furnaces fitted with two slide-ways each for ingots of up to 750 kg., one blooming roller and seven finishing rollers. Froduction of rod iron of up to 2 cm in diameter.
- 11 Storage building, type of construction same as 9 above 90 x 18 x 16.5 meters. Storage of ingots and other material for the furnaces of plant "Duo".
- 12 Cutting department and storage room for plates, type of construction same as above, 90 x 18 x 13,5 meters, with a universal cutting machine, a press, and tranes.

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annix # 20

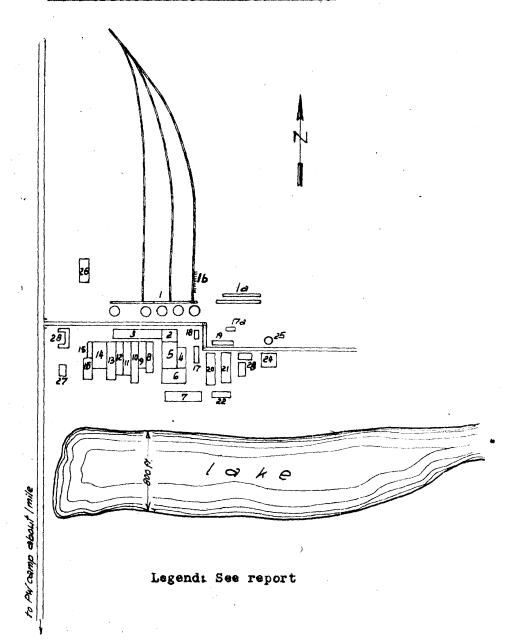
- "Stand Trio" with one furnace and two slide rails for ingots of up to 750 kg, a reller with lifting platform, a straightening roller, a plate shearing machine, two special shears, finishing roller (cold rolling) for the straightening of bent plates, two cranes. Production of plates for shipbuilding up to sizes of 1.5 x 7.5 meters and 5 cm thick.
- "Stand Duo" with one furnace, two annealing chambers, two electric rollers, three shearing machines, one finishing roller (cold rolling), two straightening rollers, and two cranes. Production of sheets.
- L5 Lathe department and storage room, 45 x 13.5 x 13.5 meters, type of construction same as above. The rollers take the finishing cut at these lathes.
- 16 Storage shed for ingots, 60 x 22.5 x 16.5 meters, type of construction same as above, two cranes. The ingots coming from the open hearth plant and to be sent to the "Trio stand" cool down in this shed. x10.5
- 17 Boiler house, brick building, 45 x 22.5/meters, with 12 to 15 boilers.
- 17a Boiler house, 22.5 x 9 x 10.5 meters. No details available.
- Compressor house, 22.5 x 13.5 x 18 meters. No details available brick
- Except briok department consisting of several brick buildings with six furnaces. Froduction of firestones for plant requirements.
- 20 Mechanical department and lathe shop, stone structure, 90 x 22.5 x 16.5 meters; the machines are of US and German origin.
- 21 holding shop and foundry, 81 x 27 x 18 meters, with three furnaces; production for plant requirements only.
- 22 Workshop, 54 x 13.5 x 16.5 meters, called Valtskarniya.
 In this shop the rollers delivered as rawlings from
 other plants are turned here.
 Buildings 20 through 22 are provided with skylights on
 their roofs.
- 23 Carpentry Two brick buildings, 36 x 18 x 9 meters each
- 24 Railroad car repair shop, steel structure 45 x 36 x 18 me = ters. Repair of factory railroad cars and production of structural steel.
- 25 Cooling tower 9 meters in diameter and 27 meters high

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- 27 Bric: administration building, five stories, 30 x 18 x 18 meters.
- U-shaped five-story building, 54 x 27 x 18 meters, occupied by civilian interness (ethnic Germans from Rumania). Source could not make any statements on the power supply of the plant.

hetallurgical Plant in ORDZHONIKIDZE



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| | | En" Plant (Drilling Eachines) | | |
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| | Locs | rsion | | |
| | ones | 'Lenin' Plant is located in the SBA (36°44'E/46°29'N), Ukrainia the main street leading to the the main railroad station. | n SSR, on a side street | |
| 2. | . Phar | t: Installations | | |
| | Germ | an technicians supervised the | construction of the halls | |
| 25X1X 25X1X | SCHO | The required from struction from the dismantled Rabo DINETEIDE. Production started ered an area of about 1,500x900 tion was available (for plant 1 | in February 1949. The plant feet. A railroad con- | |
| 3 | 。 <u>"'ork</u> | Force | | |
| | | ee shifts with 300 Soviets each Tts with 250 PTs each doing con | | |
| 4 | . Pro | <u>liction</u> | • | |
| | Rabo | oma type drilling machines. | | ÷ |
| 5X1A | Wash market | Comment: | | |
| | a. of t | A previous report gave a bette | r survey on the location | |
| | b. repe Hol: | Attached sketch confirms the ported. The former "Raboma" pla zhauserstrasse in BERLIN-BORSIG | int was located at 129-139 | |

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Legend to Annex:

- Foundry, 120x90 feet, iron structure with sheal lime walls
- "orkshop 2
 - a Garage, 120x75 feet
 - b Lathe shop

 - c Cast polishing shop d Forge with four coke fire places and two steam hammers
- 3 Completely reconstructed hall of the Raboma Plant, 300x300 feet
 - a Projected offices
- New building, 60x30x8 feet
 - a Transformer station
 - Boilor house with small boilers
 - c Hardening shop with several hardening furnaces
- 5 Magazine) (150x25 feet) a Garage)
- 6 Entrance and guard house
- Administration, three-story building, 75x75 feet, the basement housed the kitchen and mess hall for Soviet personnel
- 8 Assembly hall, 240x60 feet, iron structure with shell lime walls a Lathe shop
- Lathe shop, manufacture of parts, 180x60 feet Drop hanner resting on concrete base in a height of 36 10 feet, not in operation
- Construction site with excavations for the construction 11 of additional shops.
- 1 .mnex: "Lenia" Plant in ODESSA

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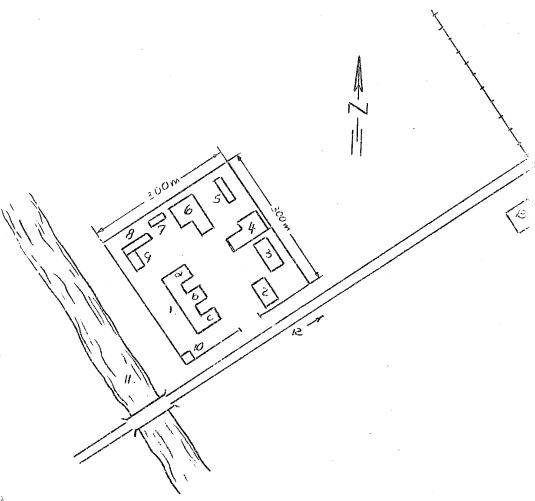
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Machines "Lenin" 10 3 Legend: See report

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| COOMINI | | optical and Mechanical Plant in Odessa |
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| SOURCE 5X1X | e Kinan Ontical and Mech | nanical Plant was located on Tiraspolerstrasse |
| 25X1X The 25X1X (a) | the northwestern section of the plant covered an area the force spare parts departs departs the Russians, the planting the war, deconstruction | on of Odessa (46028 N/30042 E), Ukrainian S.S.R. about 300 meters square |
| 25X1X | th machinary dismantled | at the Zeiss Firm in Jena (1. 51/J 66). |
| 2. Ap pil in pin ph sh | cture equipment, bushing struments. Semi-finished sings arrived by truck. on in which warts for o | in the plant included commercial projectors, motion gs, miniature screws, and shafts used in precision d products such as lenses and molded pieces for Source thought that this plant was an assembly ptical instruments were produced. There was a work t working in one day shift. The plant was guarded |
| 25X1X L | s installed were old on some experts wor | ked temporarily in Odessa. It seems improbable civilian purposes were manufactured in the plant. |

CONTIDURTIAL/CONTROL/US OFFICIALS ONLY

THE KINAP OPTION. AND MECHANICAL FLANT IN ODESSA



Legend .

- 1. Main factory building, partially destroyed and now under remonstruction
- 14. King three stories high and provided with a meller. Completed
- 18. Wing under construction, no easement.
 10. Wing under construction, cellar completed and used as storeroom.
- 2. Cooperative shop and dwellings.
- 3. Garage. 4. doilerhhuse.
- 5. Destroyed building.
- 6. Carpenter's shop and foundry with two furnames.
- 7. Coal dump. 8. fastory kitchen.
- 9. Messhall 10. Guard room with side entrance.
- 11. hiver, about 60 meters from the factory.
- 12. Tiraspolerstrasse Leads to the center of the town. 13. PW Camp

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1. Location

On the northwestern edge of Konstantinovka $(37.043^{\circ}E/48.032^{\circ}N)$, Ukrainian SSR, northwest of the main station, between the Terets River and the railroad line to the northeast. On the west the plant borders the area of a chemical plant.

2. Plant Installations

- a. The 50th anniversary of the plant was celebrated in December 1948. The plant, especially the open-hearth plant, siffered from heavy war damages. The open-hearth plant was dismantled after the war and the usable material taken for the reconstruction of other plant buildings.
- b. The following installations have been newly constructed: The open-hearth plant with four furnaces, a blast furnace, the rolling mill, a mechanical department, three cooling towers and other smaller installations.
- c. Two blast furnaces operated during the Summer of 1949. The construction of two additional blast furnaces was stopped and it was not known whether the construction would be resumed. The technical equipment of the plant was constantly being modernized. Thus several sets of cranes have been fitted since 1945, and an automatic conveying installation to charge the blast furnaces and the open-hearth plant wase completed in 1949.
- d. The power was supplied from the outside. A railroad connection is available. The plant has several branch tracks and plant-owned locomotives for the shunting of trains. For plant layout see Annex.

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annex 23

3. Work Force

Three shifts with a total of at least 5,000 laborers.

4. Production

Section iron, sheet metal, plates of various thickness.

25X1A

Comment:

Scurce's statement, that the plant is an old installation, and was heavily damaged during the war, is correct.

It has been under reconstruction since 1944.

This report is the first post-war information on the plant. Confirmation on the plant layout and the details is still required.

1 Amex: Frunze Metallurgical Plant in Konstantinovka

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1 / Annex

annex. #23

Legend to Annex

- A Frunze Metallurgical Flant
- 1 Two water cooling towers) Partially still under construction, one tower
- 2 One cooling tower) 36 meters high
- 3 Mater canals
- 4 Two blast furnaces in operation, the western one has a new automatic conveying installation
- 5 Compressor station
- 6 Ore and lime dumps
- 7 Cable for coke
- 8 Boiler house
- 9 Coal dump
- 10 Steel depot
- 11 Two transformers
- 12 Rolling mill, about 225 x 72 meters, still under construction
 - a Heating plant
 - b Mill trains under construction, so far only two are in operation. Light and heavy cranes for rolled products are available
- 13 Open-hearth plant with four furnaces, 90 x 30 meters, constructed after the war, equipped with automatic charging installation
- 14 Scrap dump
- 15 dolding shop
- 16 Warehouse for plant requirements
- 17 Workshop
- 18 Carage
- 19 Kitchen
- 20 Wooden bridge for pedestrians
- 21 Laboratory
- 22 Old dismantled open-hearth plant
- 23 Electrical repair shop
- 24 Foundry under construction

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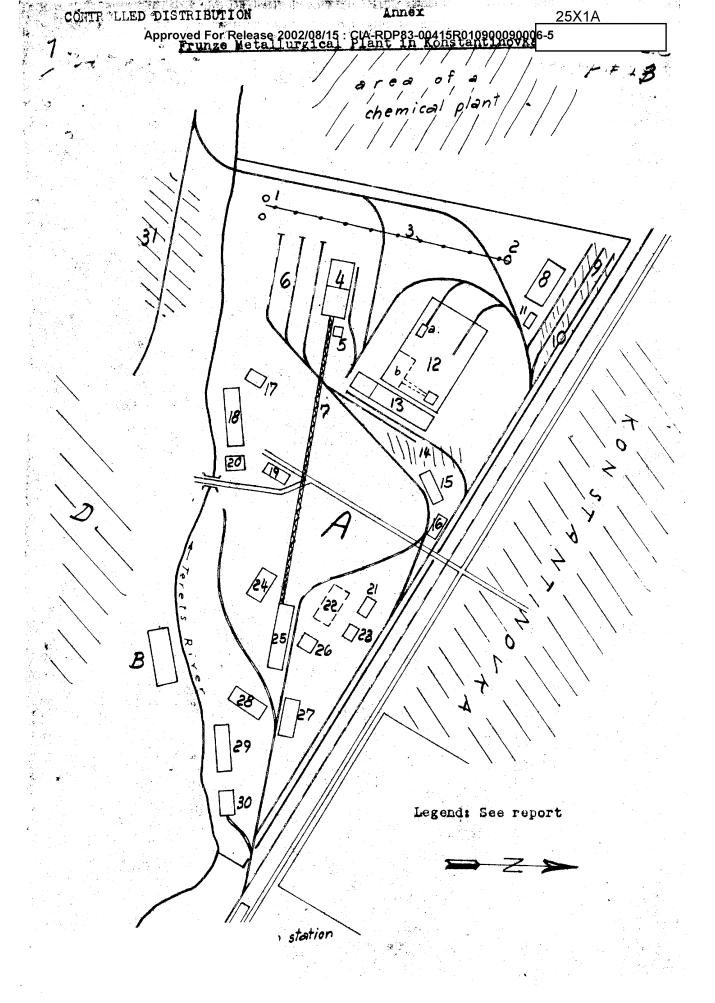
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CONFID ANTIAL-CL.T.OL/US OFFICIALS ONLY 2 / Annex

annex #23

- 25 Coking plant, not sufficient for the supply of the blast 'furnaces
- 26 Main transformer
- 27 Lechanical workshop
- 28 Small foundry for utensils
- 29 Mechanical workshop
- 30 Locomotive barn
- 31 Slag dump
- B Zinc plant
- C Park
- D Vacant area

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This report is a valuable supplement to, and confirmation of other information which reported this plant for the first time *. The location of the essential plant buildings contained in the arnexed sketch is in accordance with previous data. Small differences such as the location of the zinc factory south of the plant may result from the large number of tuildings.

1 Annex: Frunze Metallurgical Flant in Konstantinovka.

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Legend to Annex:

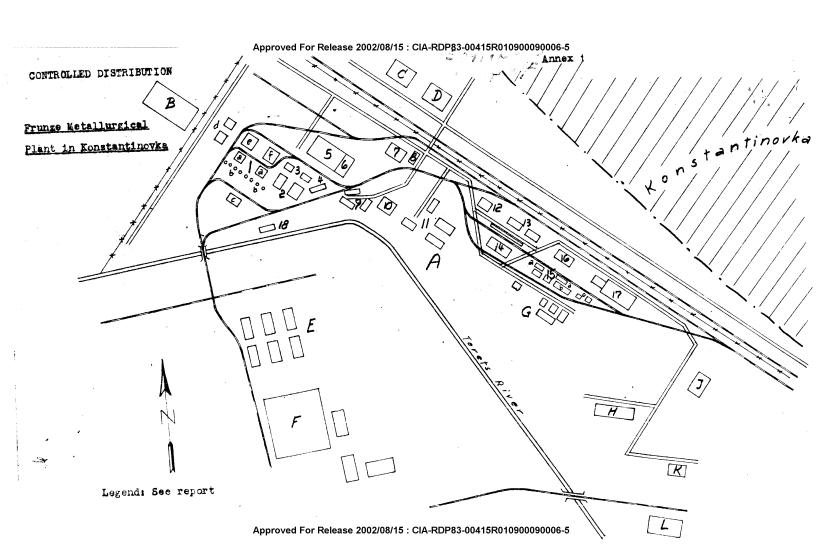
A Metallurgical plant

- 1 Blast furnace installation with
 - a Two blast furnaces, each 30 meters high
 - b Four hot blast stoves, each 25 meters high and 5 to 6 meters in diameter
 - c Repair shop for the blast furnaces, 500 x 30 meters
 - d Two cooling towers, each 20 meters high, cross section 5 x 5 meters
 - e Manganese yard, 200 x 200 meters, with eight wooden lean-to roofs
 - f Ore yard like e
- 2 Two boilerhouses, each 60 x 40 meters, each with two boilers
- 3 Two machine buildings, 40 x 30 meters each, instellation unknown
- 4 Fuel depot, four semi-underground tanks, each 20 meters long and 5 meters in diameter
- 5 Rolling mill No 585, 300 x 120 meters, three roll trains in operation, three more roll trains under construction
- 6 Open-hearth department, closely attached to the rolling mill, 120 x 15 meters, with four open-hearth furnaces
- 7 Foundry, 120 x 80 x 10 meters, with three cupola furnaces projecting over the roof of the foundry. No details
- R Pattern store room, 60 x 30 meters
- 9 Three garages
- 10 Mess, 100 x 100 maters, with four rooms
- 11 Boiler forge, four workshops, each about 100x 40 meters, production of boilers, 1½ meters in diameter and 8 to 10 meters long
- 12 Administration building, 80 x 60 meters, three stories
- 13 Electrical department, two workshops, 100 x 30 meters
- 14 Open-hearth plant, 200 x 80 meters, no details
- 15 Coking plant with
 - a Four workshops, about 50 x 50 meters
 - b One coking battery with 60 compartments
 - e Two gas holders, 6 meters in diameter, 10 meters high.

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- 16 Forge, 80 x 40 meters, for repair work in the plant
- 17 Machine shop, 150x60 meters with annex, 30 x 20 meters, production of six-throw crankshafts
- 18 Fumping station, 80 x 20 meters, with two pumps
- B Glass factogy with six workshops (three of them with three stories), factory area 600 x 200 meters
- C Tanning agent factory, with four adjoining workshops, each 80 x 60 meters
- D Leather factory with four workshops. 100 x 60 meters, and 100 x 30 meters
- E Zinc factory with six workshops, 100x 50 meters
- F Airfield
- G Slagstone plant with four workshops of different size:
- H Tractor assembly shop
- I Locomotive repair shop, size of this building 120 x50 meters
- K Savmill
- L Scrap department with crushing installation.

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| | 1. | Locat | ion: ZAF OROSHYE (35°15°E/4° | 7°15°N): |
| | 2, | llant | installations: See Annex. | |
| | 3. | Numer | ical designation: Plant No | . 478 (formerly No. 29) |
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| 25X | (1X 6 | | reported the produ | ction of radial engines, |
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b. *Plant No. 478 was repeatedly reported as being the designation for the ZAFOROSHYE Aircraft Flant. Old records, dating back to July 1944, list No. 478 for this eigeraft angine plant. The number is therefore considered confirmed.

Annex: Aircraft Engine Flant, formerly No. 29, in ZAPOROSIYE(sketch on ditto).

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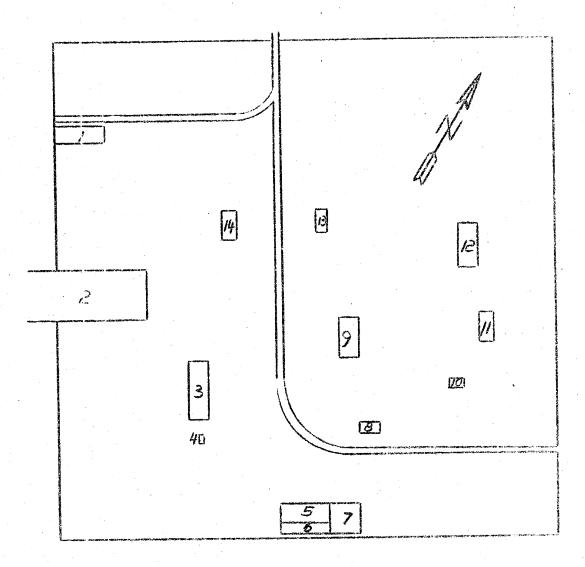
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- 2 Assembly snop for notors, new tuilding, cons ructed of cast cement pillars with brick lining. The iron structure roof is covered with cement slabs. Largest of the plant buildings with its western section projecting out of the plant area.
- 3 Lechanical workshop, newly constructed; manufacture of single parts for electric motors.
- 4 Locomotive barn with one locomotive used as plant heating installation and steam generator.
- 5 armature winding shop.
- 6 Electric welding shop.
- 7 Press sutting shop.
- 8 Pattern making carpenter shop.
- 9 Forge.
- 11 Carpentry for construction requirements and plant furniture
- 12 Sawmill with wooden storage dump, equipped with two saw frames.
- 13 Old two-story administration building.
- 14 Foundry equipped with two large cupola furnaces, casting of crank cases.

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"Karl Marx" Plant for Electro Motors in PERVOMAISK



Legend: See report

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